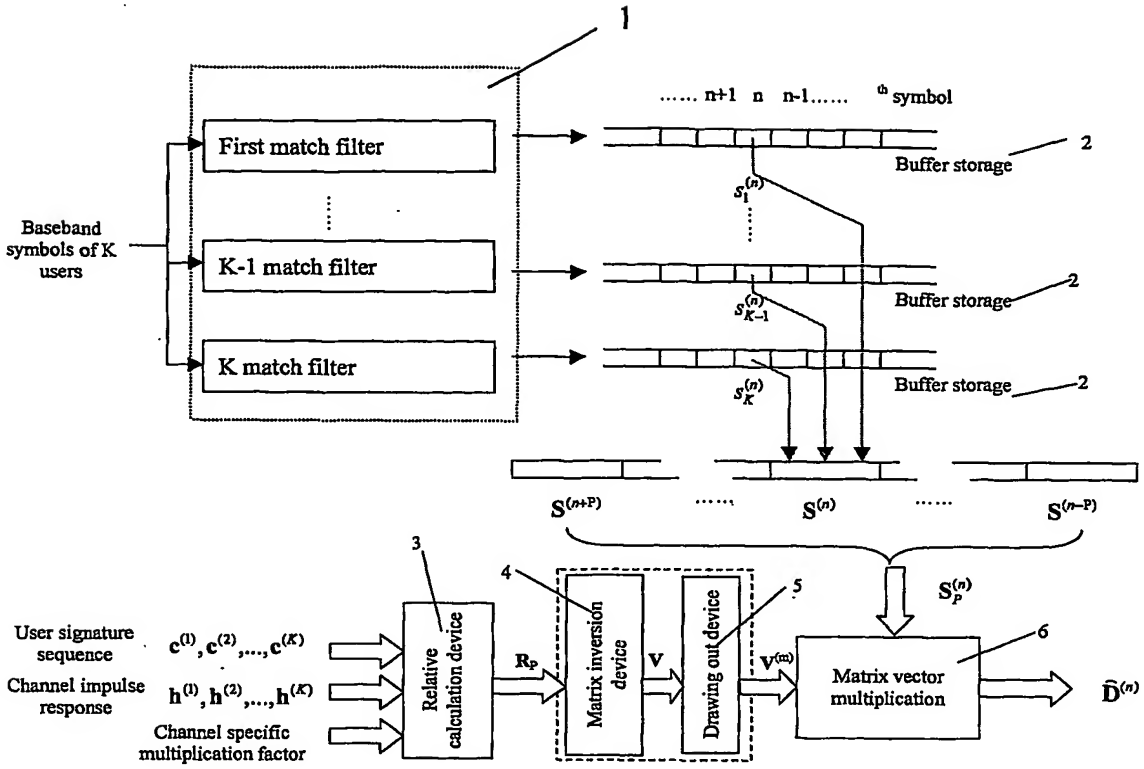
1
First match filter
K-1 match filter
K match filter
Baseband symbols of K users
..... n+1 n n-1..... th symbol
Buffer storage
2
$S_1^{(n)}$
$S_{K-1}^{(n)}$
$S_K^{(n)}$
$S^{(n+P)}$
$S^{(n)}$
$S^{(n-P)}$
$S_P^{(n)}$
3
4
5
6
User signature sequence
$c^{(1)}, c^{(2)}, ..., c^{(K)}$
Channel impulse response
$h^{(1)}, h^{(2)}, ..., h^{(K)}$
Channel specific multiplication factor
Relative calculation device
R_P
Matrix inversion device
V
Drawing out device
$V^{(m)}$
Matrix vector multiplication
$\hat{D}^{(n)}$

FIG. 1